

Title (en)

SEMICONDUCTOR ASSISTED DC LOAD BREAK CONTACTOR

Title (de)

GLEICHSTROMSCHUTZTRENNSCHALTER MIT HALBLEITERUNTERSTÜTZUNG

Title (fr)

INTERRUPTEUR COUPE-CHARGE À COURANT CONTINUE ASSISTÉ À LA COMMUTATION PAR SEMI-CONDUCTEUR

Publication

EP 2603925 B1 20161005 (EN)

Application

EP 11743172 A 20110808

Priority

- US 85422310 A 20100811
- US 2011046891 W 20110808

Abstract (en)

[origin: US2012038227A1] An electrical switch apparatus for use in connecting and disconnecting a DC power source and a load includes first and second pairs of controllable electromechanical contacts coupled to the DC power source and the load for connecting the power source to the load when the contacts are closed, and disconnecting the power source from the load when the contacts are open. A controller is coupled to the electromechanical contacts and programmed to produce control signals for opening and closing the contacts. A diode is coupled to the electromechanical contacts to prevent electrical current from flowing from the load to the power source, and a controllable semiconductor switch is coupled to the controller and across the power source for momentarily short circuiting the source in response to a control signal indicating a transition of either or both of the first and second pairs of electromechanical contacts from a closed condition to an open condition.

IPC 8 full level

H01H 47/00 (2006.01); **H01H 9/54** (2006.01); **H01H 33/59** (2006.01); **H01H 47/32** (2006.01)

CPC (source: EP US)

H01H 9/541 (2013.01 - EP US); **H01H 33/596** (2013.01 - EP US); **H01H 47/001** (2013.01 - EP US)

Cited by

CN107749372A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 2012038227 A1 20120216; **US 8350414 B2 20130108**; AU 2011289590 A1 20130207; AU 2011289590 B2 20160225; BR 112013002819 A2 20160531; CN 103069530 A 20130424; CN 103069530 B 20160629; EP 2603925 A1 20130619; EP 2603925 B1 20161005; WO 2012021430 A1 20120216

DOCDB simple family (application)

US 85422310 A 20100811; AU 2011289590 A 20110808; BR 112013002819 A 20110808; CN 201180038198 A 20110808; EP 11743172 A 20110808; US 2011046891 W 20110808